Content:
In this paper we summarise ATLAS operations from the STEP09 campaign in June 2009 through to ATLAS taking data in the first 7TeV collisions at the LHC in March 2010.

We describe the lessons which were learned from the STEP09 challenge, both in proving which parts of the system were in good shape, but also in highlighting those areas which required improvement. Improvements which were undertaken ranged from improving the hardware on the ATLAS Tier-0 pools to improve data distribution rates, retuning of FTS channels between CERN and the Tier-1s to studying the data access patterns for analysis on Tier-2s to improve analysis rates. We also show how operational needs have driven software development in ATLAS distributed computing in the last year, with particular emphasis on data management and job execution in the ATLAS production system.

Finally, we summarise the experience of ATLAS computing operations during the first LHC data taking era.

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